

IN THE CLAIMS

Please cancel claims 1-7, 11-23, and 25-26 without prejudice.

Please amend claims 8-10 and 24.

Please add new claims 27 and 28.

Please enter the pending claims, including claims 8-10, 24, 27, and 28, as follows:

1 1.-7. (Cancelled)

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1 8. (Currently Amended) The A broad-angle multilayer ML mirror of
2 claim 4 comprising a multiple layer structure over a substrate to provide uniform
3 reflectivity over a wide range of incident angles with small phase shifts, the
4 multiple layer structure comprising Molybdenum/Silicon bi-layers with an extra
5 thick layer of Molybdenum next to the substrate wherein the multiple layer
6 structure further comprises and an extra thick layer of Silicon near the substrate.

Serial No.: 10/811,607

Attorney's Docket No. 42P19028

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1 9. (Currently Amended) The broad-angle ML mirror of claim 8 wherein
2 the extra thick layer of Molybdenum is in a first bi-layer over the substrate no. 1.

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1 10. (Currently Amended) The broad-angle ML mirror of claim 8 wherein
2 the extra thick layer of Silicon is in a third bi-layer over the substrate no. 3.

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1 11.-23. (Cancelled)

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1 24. (Currently Amended) The An optical system of claim 20 having an
2 extreme ultra-violet (EUV) radiation source, the optical system comprising:
3 a mask;
4 a wafer; and
5 a plurality of reflecting surfaces for imaging the mask on the wafer,
6 including:

7 a broad-angle mirror having a multiple layer structure over a substrate to
8 provide uniform reflectivity over a wide range of angles with small phase shifts,
9 the broad-angle mirror comprising bi-layers with an extra thick layer of

10 Molybdenum next to the substrate wherein the broad angle mirror further
11 comprises: and an extra thick layer of Silicon near the substrate.

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1 25.-26. (Cancelled)

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4 27. (New) The optical system of claim 24 wherein the extra thick layer of
5 Molybdenum is in a first bi-layer over the substrate.

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1 28. (New) The optical system of claim 24 wherein the extra thick layer of
2 Silicon is in a third bi-layer over the substrate.

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